

Billings Example

- Billings's economy & population are recovering from recession
- Tertiary Treatment (RO)
 - Upgrade would cost \$312 million in up front costs and \$11.3 million annually in O and M .
 - Per household wastewater cost would rise from \$218/yr (current) to \$1,086/yr or a 398% increase.
 - This puts Billings at 2.41 MHI to reach standards despite the fact that they have the advantage of economies of scale
- Municipal screener shows high-range impact (2.41% MHI)
- Further substantial tests show Billings is financially medium at 2.2 Secondary score. 'Substantial Matrix' indicates city cannot afford this level of treatment.
- **Conclusion:** Substantial impacts would occur. Widespread analysis necessary, and would probably indicate hardship.

Circle Example

- Circle is losing population, has a stagnant economy
- Lagoon System
 - Existing lagoon system needs upgrade to meet standards
 - Upgrade would cost Circle \$3.5 million in up front costs (plus the same in grants) up to \$0.6 million annually in O&M
 - Per household cost would rise from \$260/yr (current) to \$1,587/yr
 - Reason: small number of households
- Municipal screener shows 5.47% of median household income to pay for wastewater fees or VERY high level impact
- Further substantial tests show Circle is financially "average" at 2.0. 'Substantial Matrix' suggests Circle may encounter economic hardship

GO TO WIDESPREAD TEST



- Widespread Test shows Circle would likely have widespread impacts
- **Conclusion:** Circle will experience substantial & widespread impacts